AUTHOR INDEX, VOLUME 19

Abbās, K. B. and Sörvik, E. M.: On the Thermal Degradation of Poly(vinyl Chloride). III. Structural Changes During Degradation in Nitrogen, 2991

Abdel-Alim, A. H.: Nuclear Magnetic Resonance and Stereoregularity of PVC, 1227

——: Molecular Aggregation in Poly(vinyl Chloride). III. Role of Molecular Structure, 2177

Abdel-Aziz, S. A. M., Anderson, W., and Armstrong, P. A. M.: Surface Differences and Solute Permeability in Films of Certain Acrylic-Methacrylic Ester Polymers, 1181

Abdel-Fattah, S. H.: see Khalil, M. I.

Ablazova, T. I., Tsebrenko, M. B., Yudin, A. B. V., Vinogradov, G. V., and Yarlykov, B. V.: The Rheological Properties of Molten Mixtures of Polyoxymethylene and Copolyamide: Their Fibrillation and Microstructure, 1781

Ackerman, L.: see McGill, W. J.

Adams, H. E.: see Anderson, J. N.

——: see Baczek, S. K.

Adicoff, A.: see Lepie, A. H.

Aharoni, S. M.: Crystallization of Macromolecular Domains, 1103

Ahmad, A.: see Magott, R. J.

Aksan, S. and Żurek, W.: A Rheological Model of Viscose Rayon, 3129

Albarino, R. V. and Schonhorn, H.: Retention of Thermal Antioxidants in Polyethylene by Silane Coupling Agents. III. Copper Deactivators, 2667

Alegranti, C. W., Pye, D. G., Hoehn, H. H., and Panar, M.: The Morphology of Asymmetric Separation Membranes, 1475

Alger, K. W.: see Needles, H. L.

Aliev, K. V.: see Kabanov, V. A.

Alvino, W. M.: Polymerization of 4-Chloroformylphthalic Anhydride with 4,4′-Diaminodiphenylether, 651

——: Thermal Properties of Poly [N,N′-(4,4′-Diphenyl ether) 4-Amidophthalimide] Film, 673

——and Edelman, L. E.: Polymides from Diisocyanates Dianhydrides, and Tetracarboxylic Acids, 2961

Ambrose, R. J. and Hergenrother, W. L.: Block Polymers from Isocyanate-Terminated Intermediates. III. Preparation and Properties of Cured Diene-Urea Block Polymers, 1931

——: see Hergenrother, W. L.

Anderson, J. N., Baczek, S. K., Adams, H. E., and Vescelius, L. E.: Functionality Distribution of Hydroxyl-Terminated Polybutadienes Using Gel Permeation Chromatography. I. The Method and Calibration Procedure, 2255

——: see Baczek, S. K.

Andersen, P. G., Test, S., Deo, S. R., and Carr, S. H.: Polypropylene Fibers Melt-Spun in the Presence of Torsional Shear, 1755

Anderson, W.: see Abdel-Aziz, S. A. M.

Anderton, G. E.: Fracture Properties of Rigid Polyurethane Foams, 3355

Angerer, G. and Schilling, H.: The Effect of Pressure on Carbon Black/Elastomer Powders. IV. Comparison of Press-Cured Powders Containing Vulcanizing Agents with Mill-Mixed Compounds, 3139

Anthony, A. J., King, P. H., and Randall, C. W.: The Effects of Branching and Other Physical Properties of Anionic Polyacrylamides on the Flocculation of Domestic Sewage, 37

Anthony, R. G.: see Magott, R. J.

——: see Cox, J. H.

Aoyagi, M.: see Uemura, Y.

Armstrong, P. A. M.: see Abdel-Aziz, S. A. M.

Ayrey, G. and Mazza, R. J.: Osmotic and Viscometric Characterization of Poly(*p*-chlorostyrene) and Poly(*p*-methoxystyrene), 2621

Aziz, A.: see Mousa, A. M.

Baczek, S. K., Anderson, J. N., and Adams, H. E.: Functionality Distribution of Hydroxyl-Terminated Polybutadienes Using Gel Permeation Chromatography. II. Measurements for Commercial Polymers, 2269

——: see Anderson, J. N.

Baer, M.: Composites Obtained by Encapsulation and Collimation of Glass Fibers Within a Thermoplastic Matrix by Means of Polymerization, 1323

Bag, S. C.: see Ray, P. K.

Bagley, E. B.: see Dennenberg, R. J.

——: see Dixon, R. E.

Bakerdijian, Z.: see Utracki, L. A.

Balakrishnan, C. and Gordon, R. J.: Influence of Molecular Conformation and Intermolecular Interactions on Turbulaent Drag Reduction, 909

Ballman, R. L.: see Saunders, J. H.

Bandyopadhyay, S. B.: see Ray, P. K.

Barker, R. H.: see Reardon, T. J.

Barrall, E. M., II: see Mirabella, F. M., Jr.

Barrie, J. A., Quig, A., and Spencer, H. G.: The Permeability of Saranex Film to Flame-Retardant Vapors, 3369

Bascom, W. D., Cottington, R. L., Jones, R. L., and Peyser, P.: The Fracture of Epoxy- and Elastomer-Modified Epoxy Polymers in Bulk and as Adhesives, 2545

Bashford, V. G.: see Kershaw, D.

Batzer, H. and Zahir, S. A.: Studies in the Molecular Weight Distribution of Epoxide Resins. I. Gel Permeation Chromatography of Epoxide Resins, 585

——and——: Studies in the Molecular

Weight Distribution of Epoxide Resins. II. Chain Branching in Epoxide Resins, 601
——and——: Studies in the Molecular Weight Distribution of Epoxide Resins. III. Gel Permeation Chromatography of Epoxide Resins Subject to Postglycidylation, 609
Beacco, E.: see Penati, A.
Beck, H. N.: Heterogeneous Nucleating Agents for Crystallization of Vinylidene Chloride-Vinyl Chloride Copolymers, 371
——: Heterogeneous Nucleating Agents for the Crystallization of Isotactic Polystyrene, 2601
Bednas. M. E.: see Matsuura, T.
Beevers, R. B.: The Water Curing of a Polyurethane Resin Used as a Wool Fiber Coating, 1017
Bell, A. T., Wydeven, T., and Johnson, C. C.: A Study of the Performance and Chemical Characteristics of Composite Reverse Osmosis Membranes Prepared by Plasma Polymerization of Allyamine, 1911
Bellucci, F., Drioli, E., and Scardi, V.: Protein Ultrafiltration: An Experimental Study, 1639
Bendak, A., Khalil, M. I., El-Rafie, M. H., and Hebeish, A.: Graft Polymerization of Methacrylate onto Wool Using Dimethylaniline-Benzyl Chloride Mixture as Initiator, 335
Benerito, R. R.: see Perrier, D. M.
Beniska, J., Kyselá, G., and Štaudner, E.: Contribution to the Mechanism of the Thiuram Vulcanization. I. Polymerization of Styrene in the Presence of Tetramethylthiuram Disulfide and Natural Rubber, 1005
Benoit, H.: see Pefferkorn, E.
——: see Peyrouset, A.
Berens, A. R., Crider, L. B., Tomanek, C. J., and Whitney, J. M.: Analysis for Vinyl Chloride in PVC Powders by Head-Space Gas Chromatography, 3169
Bersted, B. H.: An Empirical Model Relating the Molecular Weight Distribution of High-Density Polyethylene to the Shear Dependence of the Steady Shear Melt Viscosity, 2167
——: Erratum to "An Empirical Model Relating the Molecular Weight Distribution of High-Density Polyethylene to the Shear Dependence of the Steady Shear Melt Viscosity," 3157
Bert, M.: see Guyot, A.
Bertilsson, H. and Jansson, J.-F.: The Limits of Linear Viscoelasticity in Poly(methyl Methacrylate) and Poly(ethyl Methacrylate), 1971
Beyer, G. L.: see Spatorico, A. L.
Bigg, D. C. H.: A New Micromethod for the Determination of Plasticizer Solvent Power for Poly(vinyl Chloride), 1487
——: A Comparison of Methods for Assessing the Degree of Interaction between Plasticizers and Poly(vinyl Chloride), 3119
Blair, H. S. and Cromie, R.: Spectroscopic Investigation of Reducing Endgroup Derivatives of Hydrocellulose, 2423
——and McElroy, M. J.: An Investigation of the Surface Areas of Dyed and Undyed Secondary Cellulose Acetate by *p*-Nitrophenol Adsorption, 3161
Blais, P.: see Dickson, J. M.
——: see Gan, L. H.
Bless, P., Semen, J., and Lando, J. B.: Polymer Composites Through *In Situ* Matrix Formation, 141
Bogue, D. C.: see Takaki, T.
Bonner, D. C.: see Chang, Y. M.
Bowden, M. J. and Thompson, L. F.: Gel Permeation Chromatography of Polysulfones, 905
Boylston, E. K. and Muller, L. L.: The Effect of Poly(vinyl Bromide) on the Layering of Cotton Fibers in Flame-Retardant Cotton/Polyester Blends, 1079
Brazinsky, I., Cosway, H. F., Valle, C. F., Jr., Jones, R. C., and Story, V.: Erratum to "A Theoretical Study of Liquid-Film Spread Heights in the Calendering of Newtonian and Power Law Fluids," 2351
Brodman, B. W., Sipia, J. A., Jr., and Schwartz, S.: Diffusion of Deterrents into a Nitrocellulose Matrix. An Example of Diffusion with Interaction, 1905
——, Devine, M. P., and Gurbarg, M. T.: Hydrogen Bonding of Benzoic Acid Esters to Unesterfied Hydroxyl Groups in Nitrocellulose, 2913
Brown, J. R. and O'Donnell, J. H.: Effects of Gamma Radiation on Two Aromatic Polysulfones, 405
Bumgarner, M. O.: see Yasuda, H.
Burns, C. M.: see Lloyd, D. R.
Burroughs, J. A.: see Saunders, J. H.
Cabradilla, K. E. and Zeronian, S. H.: Factors Influencing the Tensile Properties of Ramie, 503
Campbell, D. R.: Copolymers of Maleic Anhydride-^{14}C and Vinyl Acetate as Standards in an Automated Titration Method for Combined Anhydride, 1283
Caplan, P. J.: see Helbert, J. N.
Carenza, M.: see Tavan, M.
Carlsson, D. J.: see Gan, L. H.
Carr, S. H.: see Andersen, P. G.
Casale, A.: Temperature Effect on Polymer Mechanochemistry, 1461
Cates, D. M.: see Hsiung, P. L.
Cernia, E., Mantovani, E., Marconi, W., Mazzei, M., Palladino, N., and Zanobi, A.: Photosensitized Degradation of Polyolefins, 15
——and Gasparini, F.: On a Pt(II)-Poly(4-vinylpyridine) Complex, 915
——and——: Boron Hydride on Polymeric Matrix, 917
——and Conti, W.: Behavior of Unstretched Nylon 6 Fibers Subjected to Longitudinal and Transverse Impact, 939
——: see Pozzi, V.
Chakravarty, A. C.: see Ray, P. K.
Chang, E. P.: see Salovey, R.
Chang, T. M. S.: see Chawla, A. S.
Chang, Y. M. and Bonner, D. C.: Sorption of Solutes by Poly(ethylene Oxide). I. Infinite-Dilution Studies, 2439

——and——: Sorption of Solutes by Poly(ethylene Oxide). II. Benzene at Finite Concentrations, 2457
Chang, Y. H. and Murakami, K.: Viscoelastic Properties of Plasticized Amylose Triacetate Films, 3015
Chartoff, R. P.: see Yingst, J. C.
Chawla, A. S. and St-Pierre, L. E.: The Chemically Initiated Solid-State Polymerization of Hexamethylcyclotrisiloxane, 353
——and Chang, T. M. S.: Use of Solubility Parameters for the Preparation of Hemodialysis Membranes, 1723
Cheever, G. D.: Electrostatic Charge Acceptance and Decay of Powder Coating Particles, 147
Cheu, E.-L. and Osawa, Z.: Study of the Degradation of Polyurethanes. I. The Effect of Various Metal Acetylacetonates on the Photodegration of Polyurethanes, 2947
Chian, E. S. K. and Fang, H. H. P.: Constrained Optimization of Cellulose Acetate Membrane Using Two-Level Factorial Design, 251
——: see Fang, H. H. P.
Chudasama, V. P.: see Kulshreshtha, A. K.
Connelly, T. M., Jr., and Gillham, J. K.: Poly(dichlorophosphazene): Thermomechanical Behavior, 2641
Conti, W.: see Cernia, E.
——: see Ronca, G.
Cooper, A. R., Hughes, A. J., and Johnson, J. F.: Characterization and Properties of Macromolecules. VIII. A Study of Experimental Variables in Preparative-Scale Gel Permeation Chromatography, 435
Cosway, H. F.: see Brazinsky, I.
Cottington, R. L.: see Bascom, W. D.
Courtney, J. M. and Gilchrist, T.: Chemical Modification of Acrylonitrile Copolymers: Reaction of Cationic Copolymers with Ethylene Oxide, 1503
Cox, J. H., Jr., and Anthony, R. G.: Analysis of a Living Polymer Mixture by Use of Small-Molecule Gel Permeation Chromatography, 821
Crandall, E. W., Johnson, E. L., and Smith, C. H.: The Near Infrared Spectra of Some Polyamic Acid Resins, 897
Crider, L. B.: see Berens, A. R.
Critchfield, F. E.: see Seefried, C. G., Jr.
Cromie, R.: see Blair, H. S.
Culter, J. D., Zakin, J. L., and Patterson, G. K.: Mechanical Degradation of Dilute Solutions of High Polymers in Capillary Tube Flow, 3235
Culver, L. E.: see El-Hakeem, H.
Curro, J. G. and Salazar, E. A.: Physical and Chemical Stress Relaxation of Elastomers, 2571
Czlonkowska-Kohutnicka, Z. and Raszczuk, A.: Effect of Microgels on the Viscoelastic Properties of Poly(dimethylvinylsiloxanes), 1269
Davis, E. G., Rooney, M. L., and Larkins, P. L.: Permeability of Polymer Films to Sulfur Dioxide at Low Concentration, 1829
Dawkins, J. V. and Hemming, M.: Infrared Detection of Polymers in Gel Permeation Chromatography, 3107
De Jong, G. J.: see Hilgen, H.
Dennenberg, R. J. and Bagley, E. B.: Filler Crosslinking by Diisocyanate in a Starch Xanthide-Reinforced Elastomer, 519
Deo, S. R.: see Anderson, P. G.
Devine, M. P.: see Brodman, B. W.
Diab, M. A.: see Moustafa, A. B.
Dickson, J. M., Matsuura, T., Blais, P., and Sourirajan, S.: Reverse Osmosis Separations of Some Organic and Inorganic Solutes in Aqueous Solutions Using Aromatic Polyamide Membranes, 801
——: see Matsuura, R.
Dilova, E.: see Dimov, K.
Dimov, K., Dilova, E., and Stoyanov, S.: Effect of Composition on Behavior of Tricomponent Polymer Blends. Study by Means of Simplex Lattice Planning of the Experiment, 2087
Dixon, R. E. and Bagley, E. B.: The Preparation of Powdered EPDM Rubber from Solution, 1491
Doane, W. M.: see Wing, R. E.
Dousek, F. P.: see Jansta, J.
Drioli, E.: see Bellucci, F.
——: see Nicolais, L.
Ducháček, V.: Effect of High-Abrasion Furnace Carbon Black on the Course of Thiuram-Accelerated Sulfur Vulcanization, 645
——: Effect of Temperature on the Course of Thiuram-Accelerated Sulfur Vulcanization, 1617
Dunlap, R. W.: see Reinshagen, J. H.
Dunlop, A. P.: see Frisch, K. C.
DuPlessis, T. A.: see Schnautz, N. G.
Dušek, K. and Janáček, J.: Hydrophilic Gels Based on Copolymers of 2-Hydroxyethyl Methacrylate with Methacrylamide, 3061
Dweltz, N. E.: see Kulshreshtha, A. K.
——: see Venkatesh, G. M.
Ebra-Lima, O. M. and Paul, D. R.: Hydraulic Permeation of Liquids Through Swollen Polymer Networks. I. Poly(vinyl Alcohol)-Water, 1381
——: see Paul, D. R.
Edelman, L. E.: see Alvino W. M.
Ehigiamusoe, R. E., and Howard, G. J.: Porous Polymer Carbons. V. Macroporous Carbons From Crosslinked α-Chloroacrylonitrile Polymers, 3327
El-Hakeem, H., Marshall, G. P., Zichy, E. L., and Culver, L. E.: Craze Growth and Void Coalescence in PMMA Round Notched Bars, 3093
El-Hosseiny, F.: see Kim, C. Y.
El-Rafie, M. H., Khalil, M. I., and Hebeish, A.: Azobisisobutyronitrile-Induced Vinyl Graft Polymerization onto Nylon 66, 1677
——and Hebeish, A.: Graft Copolymerization of Nylon 6 with Methyl Methacrylate Using Dimethylaniline/Cu^{2+} Ion System, 1815
——: see Bendak, A.
Engel, P. A. and Sacher, E.: A Computer Implementation of Frequency-Temperature Superposition for Dynamic Mechanical Transformations, 791

Fang, H. H. P. and Chian, E. S. K.: Removal of Alcohols, Amines, and Aliphatic Acids in Aqueous Solution by NS-100 Membrane, 1347
——and——: Criterion of Ion Separation by Reverse Osmosis, 2889
——: see Chian, E. S. K.
Fedorova, G. N.: see Sazanov, Y. N.
Fedors, R. F. and Landel, R. F.: Relationship between Maximum Extensibility of Networks and the Degree of Crosslinking and Primary Molecular Weight, 2709
——: Variability of Ultimate Properties of Elastomers, 787
Felder, R. M., Spence, R. D., and Ferrell, J. K.: A Method for the Dynamic Measurement of Diffusivities of Gases in Polymers, 3193
Ferrell, J. K.: see Felder, R. M.
Finger, F. L.: see Mendelson, R. A.
Fitzgerald, E. R.: Audio-Frequency Mechanical Spectra of a Butadiene Terpolymer, 2015
Fountain, R. and Haas, T. W.: Application of Infrared Spectroscopy to the Cure of Polyimide Laminates, 1767
——and——: Changes in the C≡N Group Infrared Absorption of Dicyandiamide in the Presence of Moisture, 2059
Fourie, J.: see McGill, W. J.
Fowler, D. W.: see Paul, D. R.
Frederick, W. J., Jr., and Mentzer, C. C.: Determination of Heats of Volatization for Polymers by Differential Scanning Calorimetry, 1799
Fried, J. R., Karasz, F. E., and MacKnight, W. J.: Preparation of Brominated Polypentenamer and its Substituted Nitrile Derivative, 3381
Friedman, M. L.: see Malkin, A. Y.
Friis, N. and Hamielec, A. E.: Kinetics of Vinyl Chloride and Vinyl Acetate Emulsion Polymerization, 97
Frisch, H. L.: see Frisch, K. C.
Frisch, K. C., Klempner, D., Migdal, S., Frisch, H. L., and Dunlop, A. P.: Polyurethane-Polyacrylate Interpenetrating Polymer Networks. II., 1893
Fujimura, T.: see Iwakura, K.
Fukada, E.: see Zimmerman, R. L.
Gabbay, S. M., Stivala, S. S., and Reich, L.: Thermal Oxidative Degradation of Poly(4-methyl-1-pentene). I. Identification of Products and Mechanisms, 2391
Galvin, P. T. and Whorlow, R. W.: Studies of Time Effects in the Flow of Polymer Melts Using a Biconical Viscometer, 567
Gan, L. H., Blais, P., Carlsson, D. J., Suprunchuk, T., and Wiles, D. M.: Physicochemical Characterization of Some Fully Aromatic Polyamides, 69
Gasparini, F.: see Cernia, E.
Geetha, C. K.: see Varma, I. K.
Ghandi, K. S.: see Rao, V. G.
Gilchrist, T.: see Courtney, J. M.
Gillham, J. K.: see Connelly, T. M., Jr.
——: see Schoff, C. K.
Gittens, G. J.: see Palin, M. J.
Giuffrè, L.: see Pozzi, V.
Gloor, W. E.: A Continuum of Molecular Weight Distributions Applicable to Linear Homopolymers, 273
Gogolewski, S.: see Turska, E.
Gole, J.: see Guyon-Gellin, J. M.
——: see Lechermeier, G.
Gonzalez, H.: Autographic Impact Testing with Increased Efficiency and Accuracy, 2717
Gordon, R. J.: see Balakrishnan, C.
Gotō, K.: see Iida, T.
Goto, Y.: see Nakano, S.
Grates, J. A., Thomas, D. A., Hickey, E. C., and Sperling, L. H.: Noise and Vibration Damping with Latex Interpenetrating Polymer Networks, 1731
Green, A.: see James, A. G.
Greenwood, R. and Weir, N. A.: The Effect of Photodegradation of Polystyrene on its Permeability Characteristics, 1409
Grezlak, J. H. and Wilkes, G. L.: The Preparation and Physical Properties of Polyester-Poly(methyl Methacrylates) Triblock Copolymers, 769
Gupta, M. P.: see Lakshminarayanan, T. R.
Gupta, V. B.: The Creep Behavior of Standard Linear Solid, 2917
Gurbarg, M. T.: see Brodman, B. W.
Guyon-Gellin, J. M., Gole, J., and Pascault, J. P.: Préparation et Etude de Copolymères Triséquencés Isoprène et Méthacrylate de Méthyle, 3173
Guyot, A. and Bert, M.: Thermal Stability of Poly(vinyl Chloride), 2923
Haas, T. W.: see Fountain, R.
Hagerman, E. M. and Mentzer, C. C.: Stress Wave-Initiated Fracture in Amorphous Thermoplastics, 1507
Hallos, R. S. and Keighley, J. H.: The Preparation and Properties of Poorly Ordered (Amorphous) Polyamide Films, 2309
Hamed, G. and Rodriguez, F.: Gelation of Dilute Collagen Solutions by Ultraviolet Light, 3299
Hamielec, A. E.: see Friis, N.
Han, C. D.: A Study of Coextrusion in a Circular Die, 1875
——: Measurement of Stress Birefringence Patterns in Molten Polymers Flowing through Geometrically Complex Channels, 2403
——and Kim, Y. W.: The Effect of Mixing on the Modes of Dispersion and Rheological Properties of Two-Phase Polymer Blends in Extrusion, 2831
——and Park, J. Y.: Studies on Blown Film Extrusion. I. Experimental Determination of Elongational Viscosity, 3257
——and——: Studies on Blown Film Extrusion. II. Analysis of the Deformation and Heat Transfer Processes, 3277
——and——: Studies on Blown Film Extrusion. III. Bubble Instability, 3291
Hartley, M. D. and Williams, H. L.: Dynamic Mechanical Study of Polycarbonate-Based Block Copolymers, 2431
Hartmann, B.: Ultrasonic Properties of Phenolic and Poly(phenylquinoxaline)Polymers, 3241

Hartz, R. E.: Reaction During Cure of a Blocked Isocyanate-Epoxy Resin Adhesive, 735
Hashimoto, H.: see Hino, K.
Hashimoto, T.: see Kato, Y.
Hayashi, M.: see Yamamoto, S.
Hampson, F. W. and Manley, T. R.: The Flammability of Vulcanized Butadiene-Acrylonitrile Elastomer, 2347
Hebeish, A.: see Bendak, A.
——: see El-Rafie, M. H.
Helbert, J. N., Wagner, B. E., Caplan, P. J., and Poindexter, E. H.: Increased Radiation Degradation in Methyl Methacrylate Copolymers, 1201
Hemming, M.: see Dawkins, J. V.
Hergenrother, W. L. and Ambrose, R. J.: Block Polymers from Isocyanate-Terminated Intermediates. IV. Properties of Cured Butadiene-ε-Caprolactam Block Polymers, 3225
——: see Ambrose, R. J.
Hickey, E. C.: see Grates, J. A.
Hien, N. V.: see Prud'Homme, R. E.
Hilgen, H., DeJong, G. J., and Sederel, W. L.: Styrene-Divinylbenzene Copolymers. II. The Conservation of Porosity in Styrene–Diinylbenzene Copolymer Matrices and Derived Ion-Exchange Resins, 2647
Hill, J. M.: The Effect of Precompression on the Load-Deflection Relations of Long Rubber Bush Mountings, 747
Hill, L. W.: see Hsiao, Y. C.
Hillman, J. J.: Preparation of Reverse Osmosis Membranes by Surface Modification of Polymeric Films. I. Surface Acetylation of Cellulose, 1685
——: see Yasuda, H.
Hindersinn, R. R.: see Pattison, V. A.
Hino, K., Ito, T., Toyama, M., and Hashimoto, H.: Morphological Studies on Wettability and Tackiness of Pressure-Sensitive Adhesives, 2879
Hobbs, S. Y. and Pratt, C. F.: The Effect of Skin-Core Morphology on the Impact Fracture of Poly(butylene Terephthalate), 1701
Hoehn, H. H.: see Alegranti, C. W.
Hoffman, A. S.: see Ratner, B. D.
Holsworth, R. M.: see McGinniss, V. D.
Holt, D. L.: see Lai, M. O.
Homola, A. M., Inoue, M., and Robertson, A. A.: Experiments with Soap-Free Polymerization of Styrene in the Presence of Alcohols, 3077
Hon, N.-S.: Formation of Free Radicals in Photo-Irradiated Cellulose. IV. Effect of Ferric Ions, 2789
Hopfenberg, H. B., Stannett, V. T., and Jacques, C. H. M.: The Transport of Methyl Methacrylate Monomer in Poly(methyl Methacrylate), 2485
Horigome, S.: see Taniguchi, Y.
Hornof, V., Kokta, B. V., and Valade, J. L.: The Xanthate Method of Grafting. II. Effect of Operating Conditions on the Grafting of Acrylonitrile onto Wood Pulp, 545
——,——,and——: The Xanthate Method of Grafting. III. Effect of Lignin Content on the Graftability of Wood Pulp, 1573
Hoshino, M.: see Shimada, J.
Hosoi, F.: see Mitsui, H.
Howard, G. J. and Knutton, S.: Porous Polymer Carbons. I. Preparation and Properties of Porous Poly(vinylidene Chloride) Precursor Copolymers, 683
——and——: Porous Polymer Carbons. II. Preparations and Properties of Porous Poly (vinylidene Chloride) Carbons, 697
——and Szynaka, S.: Porous Polymer Carbons. III. Surface Structure of Precursor Polymers, 2629
——and——: Porous Polymer Carbons. IV. Fused and Unfused Carbons from Poly(vinylidene Chloride), 2633
——: see Ehigiamusoe, R. E.
Hsiao, Y.-C., Hill, L. W., and Pappas, S. P.: Reversible Amine Solubilization of Cured Siloxane Polymers, 2817
Hsiung, P. L. and Cates, D. M.: Study of the Glass Transition of Poly(ethylene Terephthalate) by Gas Chromatography, 3051
Hudis, M. and Prescott, L. E.: A Study of the Contact Angle on RTV-Silicone Treated in a Hydrogen Glow Discharge, 451
Hughes, A. J.: see Cooper, A. R.
Hui, S. H. and Lepoutre, P.: The Water Absorbency of Poly(2-dimethylaminoethyl Methacrylate)-Grafted Cellulose Fibers, 1771
——: see Lepoutre, P.
Ide, Y. and White, J. L.: Rheological Phenomena During the Polymerization of Styrene in a Stirred Tank, 719
Ido, T.: see Niki, E.
Iida, T., Nakanishi, M., and Gotō, K.: Stabilization of Poly(vinyl Chloride). I. Change in Color of Poly(vinyl Chloride) Compounded with Some Metal Soaps, 235
——,——,and——: Stabilization of Poly(vinyl Chloride). II. Stabilization Mechanism Through Metal Soaps by Complementary Color Action, 243
Inoue, H. and Kohama, S.: Effect of Polymeric Silane Coupling Agents on Adhesion of Polypropylene and Polystyrene to Glass, 1939
Inoue, M.: see Homola, A. M.
Inoue, T.: see Yamamoto, S.
Ishihara, H. and Kase, S.: Studies on Melt Spinning. V. Draw Resonance as a Limit Cycle, 557
Ito, T.: see Hino, D.
Iwakura, K. and Fujimura, T.: Rheogoniometry of Molten Blends of Polystyrene and Styrenic Ionomers, 1427
Ivanov, M. A. and Kosoy, A. L.: Rapid X-Ray Diffraction Technique for Determination of Crystallinity of Cellulosic Materials, 2353
Iwato, N., Tanaka, H., and Okajima, S.: Studies of the Biaxial Stretching of Polypropylene Film. XI. Type II Orientation During [2-2FI]-Type Stretching and its Change by Subsequent Thermal Contraction, 303

Iyengar, Y.: Effects of Ozone and UV on Tire Cord Adhesion, 855
Jacques, C. H. M.: see Hopfenberg, H. B.
Jain, S. K.: see Ray, W. H.
James, A. G., Green, A., and Simpson, G. M.: Strain Energy Funcations of Rubber. I. Characterization of Gum Vulcanizates, 2033
——and——: Strain Energy Functions of Rubber. II. The Characterization of Filled Vulcanizates, 2319
Janáček, J.: see Dušek, K.
Jansson, J.-F.: see Bertilsson, H.
Jansta, J., Dousek, F. P., and Riha, J.: Quantitative Explanation of the Mechanism of Corrosion of Poly(tetrafluoroethylene) Caused by Active Alkali Metals, 3201
Johansson, M. H. and Samuelson, O.: End-wise Degradation of Hydrocellulose During Hot Alkali Treatment, 3007
Johnson, C. L.: see Bell, A. T.
Johnson, E. L.: see Crandall, E. W.
Johnson, J. F.: see Cooper, A. R.
——: see Mirabella, F. M., Jr.
Johnson, M. and Westlake, J. F.: Diffusion of Stabilizers in Polymers. II. 2-Hydroxy-4-Octoxybenzophenone in Polyolefins, 1745
——: see Westlake, J. F.
Jones, R. C.: see Brazinsky, I.
Jones, R. L.: see Bascom, W. D.
Kabanov, V. A., Aliev, K. V., and Richmond, J.: The Synthesis and Properties of Several Polypropargylpyridinium and Polypropargylbipyridinium Polyelectrolytes and their Simple and Complex Tetracyanoquinodimethane Ion-Radical Salts. I. Electrophysical Properties, 1275
Kale, P. D., Lokhande, H. T., Rao, K. N., and Rao, M. H.: Grafting on Polyester Fibers, 461
Kamal, M. R.: see Utracki, L. A.
Kamiya, Y.: see Niki, E.
Kantouch, A.: see Khalil, M. I.
Karasz, F. E.: see Fried, J. R.
Kase, S.: see Ishihara, H.
Katayama, Y.: see Yamaki, J.-I.
Kato, K.: Formation of 2,4-Dinitrophenylhydrazones in High-Density Polyethylene Film Irradiated with Ultraviolet Light, 951
——: Change of Polypropylene Film Surface by Chromic Acid Mixture Treatment, 1593
Keto, Y., Kido, S., Watanabe, H., Yamamoto, M., and Hashimoto, T.: High-Resolution and High-Speed GPC on Oligomers and Plasticizers, 629
Katsuta, T.: see Miinomi, M.
Kawaguchi, M., Taniguchi, T., Tochigi, K., and Takizawa, A.: Permeability of Water and Water Vapor Through Cellulosic Membranes, 2515
Keighly, J. H.: see Hallos, R. S.
Kershaw, D., Still, R. H., and Bashford, V. G.: Thermal Degradation of Polymers. VII. Ablation Studies on a Series of Composite Specimens Containing Asbestos Fiber with Various High-Temperature Resin Binders, 959
——,——,and——: Thermal Degradation of Polymer. VIII. Ablation Studies on a Series of Fiber-Reinforced Phenolic Resin Composites, 973
——,——,and——: Thermal Degradation of Polymers. IX. Ablation Studies on Composites: Comparison of Laboratory Test Methods with Tethered Rocket Motor Firings, 983
Khalil, M. I., Abdel-Fattah, S. H., and Kantouch, A.: Manganese(IV)-Initiated Graft Polymerization of Vinyl Monomers on Polyamide Fibers, 2699
——: see Bendak, A.
——: see El-Rafie, M. H.
Kido, S.: see Kato, Y.
Kim, C. Y., Page, D. H., El-Hosseiny, F., and Lancaster, A. P. S.: The Mechanical Properties of Single Wood Pulp Fibers. III. The Effect of Drying Stress on Strength, 1549
Kim, Y. W.: see Han, C. D.
King, P. H.: see Anthony, A. J.
Kirsten, R. O.: see Salovey, R.
Klason, C. and Kubát, J.: Anomalous Behavior of Electrical Conductivity and Thermal Noise in Carbon Black-Containing Polymers at T_g and T_m, 831
Klempner, D.: see Frisch, K. C.
Knutton, S.: see Howard, G. J.
Kobayashi, R.: see Morita, Z.
Koch, P. J., Pearce, E. M., Lapham, J. A., and Shalaby, S. W.: Flame-Retardant Poly(ethylene Terephthalate), 227
Koenhen, D. M. and Smolders, C. A.: The Determination of Solubility Parameters of Solvents and Polymers by Means of Correlations with Other Physical Quantities, 1163
Koenig, H. S. and Roberts, C. W.: Photophysical Processes in Poly(hexamethylene Adipamide)-Acid Dye Complexes: Energetics of Nylon 66 Phototendering, 1847
Kohama, S.: see Inoue, H.
Kohn, D. H.: see Ronel, S. H.
Koiwa, S.: Morphologic Changes on Processing of Polyblends of Saturated Rubber-Reinforced Plastics, 1625
Kokta, B. V.: see Hornof, V.
Koleske, J. V.: see Seefried, C. G., Jr.
Kopeček, J.: see Vacik, J.
Kosoy, A. L.: see Ivanov, M. A.
Kotani, T.: see Niinomi, M.
Koutsky, J. A.: see Racich, J. L.
Krishnaswamy, N.: see Renganathan, S.
Kubát, J.: see Klason, C.
Kubota, H., Ogiwara, Y., and Matsuzaki, K.: Photo-Induced Radicals in Glucose and Cellobiose, 1291
——and Nowell, J. B.: Changes in the Morphology of Cast Nylon 6 Through Copolymerization, 1521
——: Curing of Highly Reactive Polyester Resin under Pressure: Kinetic Studies by Differential Scanning Calorimetry, 2279
——: Flow Properties of ABS (Acrylonitrile-Butadiene-Styrene) Terpolymer, 2299
——: see Ogiwara, Y.
Kulshreshtha, A. K., Chudasama, V. P., and Dweltz, N. E.: Analysis of Cotton Fiber

Maturity. I. X-Ray Study of Phase Transformation in Various Cottons, 115
Kusumoto, K.: see Mizutani, Y.
Kutowy, O. and Sourirajan, S.: Cellulose Acetate Ultrafiltration Membranes, 1449
Kyselá, G.: see Beniska, J.
Lai, M. O. and Holt, D. L.: The Extensional Flow of Poly(methyl Methacrylate) and High-Impact Polystyrene at Thermoforming Temperatures, 1209
——and——: Thickness Variation in the Thermoforming of Poly(methyl Methacrylate) and High-Impact Polystyrene Sheets, 1805
Lakshminarayanan, T. R. and Gupta, M. P.: X-Ray Diffraction Studies on Shellac/Melamine Resin Blends, 3385
Lancaster, A. P. S.: see Kim, C. Y.
Landel, R. F.: see Fedors, R. F.
——: see Peng, S. T. J.
Lando, J. B.: see Bless, P.
Langsam, M. and Mantell, G. J.: Critical Surface Tension of Blends of Thermosetting Fluorochemical Methacrylate Polymers with Thermosetting Hydrocarbon Acrylate Polymers, 2235
Lapham, J. A.: see Koch, P. J.
Larkins, P. L.: see Davis, E. G.
Lea, K. R.: see Saunders, J. H.
Lechermeier, G., Pillot, C., Gole, J., and Revillon, A.: Anionic Graft Copolymers. I. Poly(vinyl Chloride)-g-Polystyrene. Preparation and Characterization, 1979
——, Revillon, A., and Pillot, C.: Anionic Graft Copolymers. II. Extension of Techniques of Preparation and Characterization, 1989
Lee, C. H.: Theory of Reverse Osmosis and Some Other Membrane Permeation Operations, 83
——: Time Lag and Permeation Rate in Liquid/Liquid Dialysis, 3087
Lelievre, J.: Erratum to "Starch Gelatinization," 633
Lepie, A. H. and Adicoff, A.: Energy Balances and Uniaxial Damage of Highly Filled Elastomers, 2821
Lepoutre, P. and Hui, S. H.: Grafting Acrylonitrile onto Wood Pulp: Influence of Process Variables, 1257
——: see Hui, S. H.
Lin, O. C. C.: Thixotropic Behavior of Gel-Like Systems, 199
Lloyd, D. R. and Burns, C. M.: Evaporation of Solvent in Mixed Polymer Systems of Limited Miscibility, 2859
Litt, M. and Matsuda, T.: Siloxane Zwitterions: Synthesis and Surface Properties of Crosslinked Polymers, 1221
Locati, G.: see Penati, A.
Lokhande, H. T.: see Kale, P. D.
Lopata, E. S. and Riccitiello, S. R.: The Influence of Extent of Polymerization on the Thermal Behavior of an Epoxy-Based Polyether Resin, 1127
Lorenz, J. E.: see Sperling, L. H.
Lubowitz, H. R.: see Toy, M. S.
Ludwico, W. A. and Rosen, S. L.: The Kinetics of Two-Phase Bulk Polymerization. I. Monomer and Initiator Distribution, 757
Machi, S.: see Yamaguchi, K.
MacKnight, W. J.: see Fried, J. R.
Magoshi, J. and Nakamura, S.: Studies on Physical Properties and Structure of Silk. Glass Transition and Crystallization of Silk Fibroin, 1013
Magott, R. J., Ahmad, A., and Anthony, R. G.: A Mathematical Model for Polymerization of Isoprene with *n*-Butyllithium in Benzene, 165
Malkin, A. Y., Friedman, M. L., Vachaghin, K. D., and Vinogradov, G. V.: Bicomponent Flow of Molten Polymers in Annular Dies of Extruders, 375
Manley, T. R.: see Hampson, F. W.
Mantell, G. J.: see Langsam, M.
Mantovani, E.: see Cernia, E.
Marchessault, R. H.: see Prud'Homme, R. E.
Marconi, W.: see Cernia, E.
Marsh, H. C.: see Yasuda, H.
Marshall, G. P.: see El-Hakeem, H.
Martin, D. H.: see Saunders, J. H.
Matsuda, T.: see Litt, M.
Matsuura, T., Pageau, L., and Sourirajan, S.: Reverse Osmosis Separation of Inorganic Solutes in Aqueous Solutions Using Porous Cellulose Acetate Membranes, 179
——, Bednas, M. E., Dickson, J. M., and Sourirajan, S.: Reverse Osmosis Separation of Aldehydes, Ketones, and Ethers in Aqueous Solutions Using Porous Cellulose Acetate Membranes, 2473
——: see Dickson, J. M.
Matsuzaki, K.: see Kubota, H.
Mazza, R. J.: see Ayrey, G.
Mazzei, M.: see Cernia, E.
McElroy, M. J.: see Blair, H. S.
McGill, W. J. and Fourie, J.: The Effects of Fillers, Crosslinking Agents, and Domain Size on the Physical Properties of PE-PCV Blends, 879
——and Ackerman, L.: Molecular Weight Changes in Polyacrylates on Ultraviolet Irradiation, 2773
——: The Effect of UV Light on the Subsequent Thermal Volatilization of Poly(methyl Acrylate), 2781
McGinniss, V. D. and Holsworth, R. M.: The Use of a Recording Dilatometer to Study the Photopolymerization of Ethylene Glycol Dimethacrylate Using the Isobutyl Ether or Benzoin as Photoinitiator, 2243
McHugh, A. J.: Flow-Induced Crystallization from Solution: The Relative Effects of Extension and Shearing Flow Fields, 125
Mehta, P. C.: see Trivedi, I. M.
Mendelson, R. A. and Finger, F. L.: High-Density Polyethylene Melt Elasticity—Some Anomalous Observations on the Effects of Molecular Structure, 1061
Mentzer, C. C.: see Frederick, W. J., Jr.
——: see Hagerman, E. M.
Migdal, S.: see Frisch, K. C.
Migliaresi, C.: see Nicolais, L.
Minoura, Y.: see Nakano, A.
Mirabella, F. M., Jr., Barrall, E. M., II, and Johnson, J. F.: A Rapid Technique for

Measuring Copolymer Composition as a Function of Molecular Weight Using Gel Permeation Chromatography and Infrared Detection, 2131
Mitsui, H., Hosoi, F., and Ushirokawa, M.: Effect of Double Bonds on the γ-Radiation-Induced Crosslinking of Polyethylene, 361
Mizutani, Y., Kusumoto, K., Nishimura, M., and Nishimura, T.: Microheterogeneity of Anion Exchange Membranes, 2537
——and——: Polymeric Ultraviolet Absorber, 713
Morita, Z., Kobayashi, R., Uchimura, K., and Motomura, H.: Fundamental Studies on Solvent Dyeing with Tetrachloroethylene. I. Diffusion of Disperse Dyes in Poly(ethylene Terephthalate), 1095
Morosoff, N.: see Yasuda, H.
Motomura, H.: see Morita, Z.
Mousa, A. M. and Aziz, A.: Absorption of Water by Graft Copolymers of Cotton with Methyl Methacrylate Using High-Resolution NMR, 1495
Moustafa, A. B. and Diab, M. A.: Reactions Catalyzed by Soda Lime Glass. II. Polymerization of Methyl Methacrylate, 1585
Muller, L. L.: see Boylston, E. K.
Murakami, K.: see Chang, Y. H.
Murayama, T. and Silverman, B.: An Apparatus for the Measurement of Dynamic Mechanical Properties of Polymers in a Gas Medium with the Vibron Viscoelastometer, 1695
——: A New Method for the Measurement of Dynamic Shear Mechanical Properties of Materials with a Rheovibron Viscoelastometer, 3221
Nagel, E. J.: see Sperling, L. H.
Nakamura, S.: see Magoshi, J.
Nakanishi, M.: see Iida, T.
Nakano, A., and Minoura, Y.: Effects of Solvent and Concentration on Scission of Polymers with High-Speed Stirring, 2119
——and——: Effect of Short-Chain Polymer on Scission of Long-Chain Polymer in Solution by High-Speed Stirring, 2749
Nakano, S. and Goto, Y.: Method for Correcting Molecular Weight from Gel-Permeation Chromatography. I. Skewing and Concentration Corrections, 2655
Narasimhan, V.: see Varma, D. S.
Newbould, J.: Novel Coupling Agents for Mineral-Reinforced Polyamides, 907
Nicolais, L., Drioli, E., and Migliaresi, C.: Determination of Formation and Relaxation of Crazes by Permeability Measurements, 1999
Nielsen, L. E.: The Elastic Modulus of Isotropic Semicrystalline Polymers, 1485
Nierzwicki, W. and Prins, W.: Hydrogels of Crosslinked Poly(1-glyceryl Methacrylate) and Poly(2-hydroxypropyl Methacrylamide), 1885
Niinomi, M., Katsuta, T., and Kotani, T: Electron Microscope Observation of Microtexture and Craze Formation of Acrylonitrile-EPT-Styrene Copolymer, 2919
Niki, E., Shiono, T., Ido, T., and Kamiya, Y.: Oxidative Degradation of Polyolefins. I. Thermal Oxidative Degradation of Atactic Polypropylene in Solution, 3341
Nishimura, M.: see Mizutani, Y.
Nishimura, T.: see Mizutani, Y.
Needles, H. L. and Alger, K. W.: Vapor-Phase Grafting of Methyl Acrylate on Fiber Surfaces Treated with Aqueous Dispersions of Metal Oxides, 2207
——: see Seiber, R. P.
Noah, J.: see Prud'Homme, R. E.
Nowell, J. B.: see Kubota, H.
O'Donnell, J. H.: see Brown, J. R.
Ogiwara, Y., Kubota, H., and Yasunaga, T.: Factors Affecting the Photo-Induced Graft Copolymerization of Methyl Methacrylate onto Fibrous Polymer, 887
——, Yasunaga, T., and Kubota, H.: Some Aspects of Photo-Initiated Grafting to Poly(vinyl Alcohol), 1119
——: see Kubota, H.
Okajima, S.: see Iwato, N.
Oldfield, D.: Interfacial Preparation and Properties of Poly (tributyltin Acrylate) and Related Polymers, 2911
Osawa, Z.: see Cheu, E.-L.
Owens, D. K.: Mechanism of Corona-Induced Self-Adhesion of Polyethylene Film, 265
——: The Mechanism of Corona and Ultraviolet Light-Induced Self-Adhesion of Poly(ethylene Terephthalate) Film, 3315
Paciotti, J. D.: see Paul, D. R.
Pagani, G.: see Penati, A.
Page, D. H.: see Kim, C. Y.
Pageau, L.: see Matsurra, T.
Palin, M. J., Gittens, G. J., and Porter, G. B.: Determination of Diffusion Coefficients of Water in Cellulose Acetate Membranes, 1135
Palladino, N.: see Cernia, E.
Palma, G.: see Tavan, M.
Panar, M.: see Alegranti, C. W.
Panaris, R.: see Peyrouset, A.
Pappas, S. P.: see Hsiao, Y. C.
Park, J. Y.: see Han, C. D.
Pascault, J. P.: see Guyon-Gellin, J. M.
Patel, R. D.: see White, J. L.
Paterson-Jones, J. C.: The Thermal Degradation of Model Compounds of Amine-Cured Epoxide Resins. III. The Thermal Degradation of 1-(N-Ethylanilino)-3-phenoxyprop-2-yl Acetate, Trifluoroacetate, and Methyl Ether and O-Deuterated 1-(N-Ethylanilino)-3-phenoxypropan-2-ol, 391
——: The Mechanism of the Thermal Degradation of Aromatic Amine-Cured Glycidyl Ether-Type Epoxide Resins, 1539
Patterson, G. K.: see Culter, J. D.
Pattison, V. A., Hindersinn, R. R., and Schwartz, W. T.: Mechanism of Low-Profile Behavior in Single-Phase Unsaturated Polyester Systems, 3045
Paul, D. R. and Fowler, D. W.: Surface Impregnation of Concrete Bridge Decks with Polymers, 281

——, Paciotti, J. D. and Ebra-Lima, O. M.: Hydraulic Permeation of Liquids Through Swollen Polymeric Networks. II. Liquid Mixtures, 1837
——, and Ebra-Lima, O. M.: Hydraulic Permeation of Liquids Through Swollen Polymeric Networks. III. A Generalized Correlation, 2759
——, and Southern, J. H.: The Role of Entanglements in the Elastic Fracture of Polymer Solutions, 3375
——: see Ebra-Lima, O. M.
Pearce, E. M.: see Koch, P. J.
Pefferkorn, E., Varoqui, R., and Benoit, H.: Liquid-Liquid Ion Exchange Chromatography with Amphiphilic Polyelectrolytes, 2929
Penati, A., Pagani, G., Locati, G., and Beacco, E.: Viscosimetric Molecular Weights: Some Computer Programs for Experimental Data Elaboration, 2583
Peng, S. T. J. and Landel, R. F.: Induced Anisotropy of Thermal Conductivity of Polymer Solids under Large Strains, 49
Perrier, D. M. and Benerito, R. R.: Mono- and Diquaternary Ammonium Cellulose Cottons Prepared in Nonaqueous Media, 3211
Peyrouset, A., Prechner, R., Panaris, R. and Benoit, H.: Characterization of Linear Polyethylene Fractions Obtained by Preparative GPC, 1363
Peyser, P.: see Bascom, W. D.
Pillot, C.: see Lechermeier, G.
Pimblott, J. G., Scott, G., and Stuckey, J. E.: Bis(Diisopropyl)thiophosphoryl Disulfide in *cis*-1,4-Polyisoprene Vulcanization Reactions. I. As a Sulfur Donor, 865
Poindexter, E. H.: see Helbert, J. N.
Porter, G. B.: see Palin, M. J.
Pozzi, V., Silvers, A. E., Giufrè, L., and Cernia, E.: Photodegradable Polyethylene, 923
Pratt, C. F.: see Hobbs, S. Y.
Pratt, G. J.: The Glass Transition of Irradiated Poly(methyl Methacrylate) Compositions Incorporating Triallyl Cyanurate, 2563
Prechner, R.: see Peyrouset, A.
Prescott, L. E.: see Hudis, M.
Prins, W.: see Nierzwicki, W.
Prud'Homme, R. E., Hien, N. V., Noah, J., and Marchessault, R. H.: Determination of Fiber Orientation of Cellulosic Samples by X-Ray Diffraction, 2609
Przygocki, W. and Wlochowicz, A.: Effect of Nucleating Agents upon the Kinetics of Poly(ethylene Terephthalate) Crystallization, 2683
Pye, D. G.: see Alegranti, C. W.
Quig, A.: see Barrie, J. A.
Racich, J. L. and Koutsky, J. A.: Slip-Stick Peel Failure of a Semicrystalline Adhesive, 1479
Rånby, B.: see Shur, Y. J.
Randall, C. W.: see Anthony, A. J.
Randall, J. M., Reuter, F. W. and Waiss, A. C., Jr.: Removal of Cupric Ion from Solution by Contact with Peanut Skins, 1563
Rao, M. H.: see Kale, P. D.
——: see Trivedi, I. M.
Rao, K. N.: see Kale, P. D.
——: see Trivedi, I. M.
Raszczuk, A.: see Czlonkowska-Kohutnicka, Z.
Ratner, B. D. and Hoffman, A. S.: Erratum to "The Effect of Cupric Ion on the Radiation Grafting of *N*-Vinyl-2-Pyrrolidone and other Hydrophilic Monomers onto Silicone Rubber," 1208
Rao, V. G. and Ghandi, K. S.: Solvent Effect on the Time Constant of Concentrated Polymer Solutions, 1663
Ray, P. K. and Bandyopadhyay, S. B.: Some Observations on the Concept of the Degree of Crystallinity in Cellulose Fibers with Reference to Moisture Effects, 729
——,Bag, S. C., and Chakravarty: The Influence of Gum on the Crystalline Structure in Ramie Fiber, 999
Ray, W. H., Jain, S. K. and Salovey, R.: On the Modeling of Bulk Poly(vinyl Chloride) Reactors, 1297
Reardon, T. J. and Barker, R. H.: Erratum to "Pyrolysis and Combustion of Nylon 6. I. Effect of Selected Brominated Flame Retardants," 1207
Reich, L.: see Gabbay, S. M.
Reinshagen, J. H. and Dunlap, R. W.: The Effects of Melt History, Crystallization Pressure, and Crystallization Temperature on the Crystallization and Resultant Structure of Bulk Isotactic Polypropylene, 1037
Renganathan, S. and Krishnaswamy, N.: Styrene-Furfural-Based Weak-Base Anion Exchanger, 2331
Reuter, F. W.: see Randall, J. M.
Revillon, A.: see Lechermeier, G.
Rewick, R. T.: see Toy, M. S.
Riccitiello, S. R.: see Lopata, E. S.
Richmond, J.: see Kabanov, V. A.
Rigbi, Z.: The Coupling of Deformations in a Class of Viscoelastic Solids to Temperature Changes, 1611
Říha, J.: see Jansta, J.
Roberts, C. W.: see Koenig, H. S.
Robertson, A. A.: see Homola, A. M.
Rodriguez, F.: see Hamed, G.
Ronca, G. and Conti, W.: A New Rheological Constitutive Equation for the Network Model of Polymer Melts. 931
Ronel, S. H. and Kohn, D. H.: Terpolymerization Studies. I. Terpolymerization of Acrylonitrile, Styrene, and Esters of α-Cyanocinnamic Acid, 2359
——and——: Terpolymerization Studies. II. Terpolymerization of Acrylonitrile, Styrene, and Esters of α-Cyanocinnamic Acid. Polymerization Methods and Properties, 2379
Rooney, M. L.: see Davis, E. G.
Rosen, S. L.: see Ludwico, W. A.
Rudin, A.: Calculation of Concentrated

Solution Viscosities from Single Point Measurements, 619
——and Wagner, R. A.: A New One-Point Intrinsic Viscosity Method, 3361
Russell, C. R.: see Wing, R. E.
Sacher, E.: A Relation Between Toughness and the Dynamic Mechanical Properties of Polymer Films, 1421
——: see Engel, P. A.
Sakata, I. and Senju, R.: Thermoplastic Behavior of Lignin with Various Synthetic Plasticizers, 2799
Salazar, E. A.: see Curro, J. G.
Salovey, R., Chang, E. P. and Kirsten, R. O.: Aggregation of Poly(vinyl Chloride) Fractions, 1483
——: see Ray, W. H.
Samuelson, O.: see Johansson, M. H.
Saunders, J. H., Burroughs, J. A., Williams, L. P., Martin, D. H., Southern, J. H., Ballman, R. L. and Lea, K. R.: Biconstituent Fibers from Segmented Polyurethanes and Nylon 6, 1387
Sazanov, Y. N., Fedorova, G. N., and Shcherbakova, L. M.: Thermoanalytical Investigation of Transformation of Polyamido Acid into Polyimide, 2335
Scardi, V.: see Bellucci, F.
Schilling, H.: see Angerer, G.
Schnautz, N. G. and DuPlessis, T. A.: Radiation-Induced Grafting onto Wool. A Kinetic Analysis, 2099
Schoff, C. K. and Gillham, J. K.: Fluorocarbon Bibenzoxazole Polymers: Transitions and Thermal Stability, 2731
Schonhorn, H.: see Albarino, R. V.
Schwartz, S.: see Brodman, B. W.
Schwartz, W. T.: see Pattison, V. A.
Scott, G.: see Pimblott, J. G.
Sederel, W. L.: see Hilgen, H.
Seefried, C. G., Jr., Koleske, J. V., and Critchfield, F. E.: Thermoplastic Urethane Elastomers. I. Effects of Soft-Segment Variations, 2493
——,——,and——: Thermoplastic Urethane Elastomers. II. Effect of Variations in Hard-Segment Concentration, 2503
——,——,and——: Thermoplastic Urethane Elastomers. III. Effects of Variations in Isocyanate Structure, 3185
Seiber, R. P. and Needles, H. L.: Photo-Initiated Vapor-Phase Grafting of Acrylic Monomers onto Fibrous Substrates in the Presence of Biacetyl, 2185
Semen, J.: see Bless, P.
Senju, R.: see Sakata, I.
Shalaby, S. W.: see Koch, P. J.
Shaw, M. T.: Flow of Polymer Melts Through a Well-Lubricated, Conical Die, 2811
Shcherbakova, L. M.: see Sazanov, Y. N.
Shimada, J. and Hoshino, M.: Surface Fluorination of Transparent Polymer Film, 1439
Shiono, T.: see Niki, E.
Shur, Y. J. and Rånby, B.: Gas Permeation of Polymer Blends. I. PVC/Ethylene-Vinyl Acetate Copolymer (EVA), 1337
——and——: Gas Permeation of Polymer Blends. II. Poly(vinyl Chloride)/Acrylonitrile-Butadiene Copolymer (NBR) Blends, 2143
Silverman, B.: see Murayama, T.
Silvers, A. E.: see Pozzi, V.
Simpson, G. M.: see James, A. G.
Sipia, J. A., Jr.: see Brodman, B. W.
Śmietańska, G.: see Szymański, W.
Smith, C. H.: see Crandall, E. W.
Smolders, C. A.: see Koenhen, D. M.
Sörvik, E. M.: see Abbås, K. B.
Sourirajan, S.: see Dickson, J. M.
——: see Kutowy, O.
——: see Matsuura, T.
Southern, J. H.: see Paul, D. R.
——: see Saunders, J. H.
Spatorico, A. L.: Exclusion Chromatography Using Controlled-Porosity Glass. I. Comparison with Styrene Gels, 1601
——and Beyer, G. L.: Exclusion Chromatography Using Porous Glass. II. Application to Hydrophilic Polymers, 2933
Spence, R. D.: see Felder, R. M.
Spencer, H. G.: see Barrie, J. A.
Sperling, L. H., Thomas, D. A., Lorenz, J. E., and Nagel, E. J.: Synthesis and Behavior of Poly(vinyl Chloride)-Based Latex Interpenetrating Polymer Networks, 2225
——: See Grates, J. A.
Stannett, V. T.: see Hopfenberg, H. B.
Staudner, E.: see Beniska, J.
Steiner, P. R.: Phenol–Formaldehyde Wood Adhesive Characterization by Proton Magnetic Resonance Spectroscopy, 215
Still, R. H.: see Kershaw, D.
Stivala, S. S.: see Gabbay, S. M.
Story, V.: see Brazinsky, I.
Stoyanov, S.: see Dimov, K.
St-Pierre, L. E.: see Chawla, A. S.
Stringham, R. S.: see Toy, M. S.
Stuckey, J. E.: see Pimblott, J. G.
Suchicital, C.: see Zimmerman, R. L.
Suprunchuk, T.: see Gan, L. H.
Swarin, S. J.: see Wims, A. M.
Szymański, W. and Śmietańska, G.: Radiation Yield of Hydrogen Chloride in the Poly(vinyl Chloride) Foils Irradiated by Accelerated Electrons, 1955
Szynaka, S.: see Howard, G. J.
Takagi, T.: Synthesis of Peracid-Type Resins and Their Characteristics as Oxygen Transfer Agents, 1649
Takaki, T. and Bogue, D. C.: The Extensional and Failure Properties of Polymer Melts, 419
Takehisa, M.: see Yamaguchi, K.
Takizawa, A.: see Kawaguchi, M.
Tanaka, H.: see Iwato, N.
Taniguchi, T.: see Kawaguchi, M.
Taniguchi, Y. and Horigome, S.: The States of Water in Cellulose Acetate Membranes, 2743
Tavan, M., Palma, G., and Carenza, M.: Solutions of Poly(vinyl Chloride) Polymerized at Low Temperatures, 2625
Taylor, L. J.: see Tobias, J. W.
Test, S.: see Anderson, P. G.
Thomas, D. A.: see Grates, J. A.

——: see Sperling, L. H.
Thompson, L. F.: see Bowden, M. J.
Tobias, J. W. and Taylor, L. J.: Shrinkage Behavior of Oriented PVC by Thermomechanical Analysis, 1317
Tochigi, K.: see Kawaguchi, M.
Tomanek, C. J.: see Berens, A. R.
Toy, M. S., Stringham, R. S., Rewick, R. T. and Lubowitz, H. R.: A Study of the Combination of Unsaturated Perfluorocarbon Binder and Perfluoroammonium Salt, 1359
Toyama, M.: see Hino, K.
Trivedi, I. M., Mehta, P. C., Rao, K. N., and Rao, M. H.: Gamma Ray-Induced Graft Copolymerization of Acrylamide and Acrylic Acid to Nylon 6 Fabric, 1
Tsai, J.: see Yasuda, H.
Tsebrenko, M. B.: see Ablazova, T. I.
Turska, E. and Gogolewski, S.: Study on Crystallization of Nylon 6 (Polycapramide). III. Effect of "Crystalline Memory" on Crystallization Kinetics, 637
Uchimura, K.: see Morita, Z.
Uemura, Y. and Aoyagi, M.: The Structural Color in the Polymer Blend of Poly(methyl Methacrylate) and Polystyrene, 1029
Ushirokawa, M.: see Mitsui, H.
Utracki, L. A., Bakerdjian, Z., and Kamal, M. R.: A Method for the Measurement of the True Die Swell of Polymer Melts, 481
Vachaghin, K. D.: see Malkin, A. Y.
Vacík, J. and Kopeček, J.: Specific Resistances of Hydrophilic Membranes Containing Ionogenic Groups, 3029
Valade, J. L.: see Hornof, V.
Valle, C. F., Jr.: see Brazinsky, I.
Varma, D. S. and Narasimhan, V.: Grafting of Formaldehyde-Crosslinked and Cyanoethylated Cotton Cellulose with Acrylate Monomers, 29
Varma, I. K. and Geetha, C. K.: Thermal Analysis of Poly(1,3,4-oxadiazole-2,5 diyl-1,2-ethendiyl) and Poly(1,4-phenylene-1,3,4-oxadiazole-2,5 diyl-1,2 ethendiyl), 2869
Varoqui, R.: see Pefferkorn, E.
Venkatesh, G. M. and Dweltz, N. E.: Behavior of Untreated and Crosslinked Cotton Fibers. I. Contribution of Maturity, 2067
——and——: Behavior of Untreated and Crosslinked Cotton Fibers. II. Contribution of Intrinsic Fiber Properties, 2079
Vescelius, L. E.: see Anderson, J. N.
Vinogradov, G. V.: see Ablazova, T. I.
——: see Malkin, A. Y.
Wagner, B. E.: see Helbert, J. N.
Wagner, R. A.: see Rudin, A.
Waiss, A. C., Jr.: see Randall, J. W.
Warfield, R. W.: Electrical Resistivity of Phenolic Polymer, 1205
Warwicker, J. O.: The Structural Causes of the Dyeing Variations of Nylon 66 Yarn Subjected to the False-Twist Texturing Process, 1147
Watanabe, H.: see Kato, Y.
Weir, N. A.: see Greenwood, R.
Westlake, J. F. and Johnson, M.: Diffusion of Stabilizers in Polymers. I. 2,4-Dihydroxybenzophenone in Polyolefins, 319
——: see Johnson, M.
White, J. L. and Patel, R. D.: Phase Separation Conditions in Polystyrene-Styrene-(Butadiene-Styrene) Copolymer Solutions, 1775
——: see Ide, Y.
Whitney, J. M.: see Berens, A. R.
Whorlow, R. W.: see Galvin, P. T.
Wiles, D. M.: see Gan, L. H.
Wilkes, G. L.: see Grezlak, J. H.
Willet, P. R.: Viscoelastic Properties of Tire Cords, 2005
Williams, H. L.: see Hartley, M. D.
Williams, L. P.: see Saunders, J. H.
Wims, A. M. and Swarin, S. J.: Determination of Antioxidants in Polypropylene by Liquid Chromatography, 1243
Wing, R. E., Doane, W. M., and Russell, C. R.: Insoluble Starch Xanthate: Use in Heavy Metal Removal, 847
Wlochowicz, A.: see Przygocki, W.
Wydeven, T.: see Bell, A. T.
Wypych, J.: On the Mechanism of Action of Epoxy Stabilizers in Poly(vinyl Chloride) Compositions, 3387
Yagi, T.: see Yamaguchi, K.
Yamaguchi, K., Yagi, T., Machi, S., and Takehisa, M.: Physical State of Radiation-Polymerized Polyethylene Blends, 1959
Yamaki, J.-I. and Katayama, Y.: New Method of Determining Contact Angle Between Monofilament and Liquid, 2897
Yamamoto, M.: see Kato, Y.
Yamamoto, S., Hayashi, M., and Inoue, T.: Viscoelastic Analysis on Peel Adhesion of Adhesive Tape by Matrix Method, 2107
Yano, S.: Apparatus for Torsional Braid Analysis by a Digital Data Analyzer, 1087
Yarlykov, B. V.: see Ablazova, T. I.
Yasuda, H., Bumgarner, M. O., and Hillman, J. J.: Polymerization of Organic Compounds in an Electrodeless Glow Discharge. IV. Hydrocarbons in a Closed System, 531
——,——,and——: Polymerization of Organic Compounds in an Electrodeless Glow Discharge. V. Amines and Nitriles, 1403
——, Marsh, H. C., and Tsai, J.: Preparation of Composite Reverse Osmosis Membranes by Plasma Polymerization. II. Copolymerization of Unusual Comonomers, 2157
——, ——, Bumgarner, M. O., and Morosoff, N.: Polymerization of Organic Compounds in an Electrodeless Glow Discharge. VI. Acetylene with Unusual Comonomers, 2845
——and——: Preparation of Composite Reverse Osmosis Membranes by Plasma Polymerization of Organic Compounds. III. Plasma Polymers of Acetylene/Co/H_2O, 2981
——: Units of Gas Permeability Constants, 2529
Yasunaga, T.: see Ogiwara, Y.

Yingst, J. C. and Chartoff, R. P.: Comments on Preparation of Broad-Distribution Poly(vinyl Chloride) Samples by Recombining Fractions, 1193
Yudin, A. B. V.: see Ablazova, T. I.
Zahir, S. A.: see Batzer, H.
Zakin, J. L.: see Culter, J. D.
Zanobi, A.: see Cernia, E.
Zeronian, S. H.: see Cabradilla, K. E.
Zichy, E. L.: see El-Hakeem, H.
Zimmerman, R. L., Suchicital, C. and Fukada, E.: Electric Field-Induced Piezoelectricity in Polymer Film, 1373
Żurek, W.: see Aksan, S.

SUBJECT INDEX, VOLUME 19

ABS (acrylonitrile-butadiene-styrene) terpolymer, flow properties, 2299
Absorption of water by cotton methylmethacrylate copolymer, use of high resolution NMR, 1495
Acrylic-methacrylic ester polymer films, surface differences and solute permeability, 1181
Acrylonitrile copolymers, chemical modification in reaction of cationic copolymers with ethylene oxide, 1503
Acrylonitrile-EPT-Styrene copolymer, electron microscopic observation of microstructure, 2919
Adhesive, a blocked isocyanate-epoxy resin reaction during curing, 735
semicrystalline slipstick peel failure, 1479
Adhesive pressure sensitive, morphological studies on wettability and tackiness, 2879
Ammonium cellulose cotton from mono- and diquaternary, prepared in nonaqueous media, 3211
Amorphous thermoplastics, stress wave initiated fracture, 1507
Anion exchanger of weak base, styrene furfural based, 2331
Anion exchange membranes of microheterogeniety, 2537
Anionic graft copolymers of poly(vinylchloride)-g-polystyrene, preparation and properties, 1979
techniques extension for preparation and characterization, 1989
Antioxidant thermal in polyethylene, retention by silane coupling agents and copper derivatives, 2667
Apparatus for torsional braid analysis, a digital data analyzer, 1087
Automated titration method for combined anhydride, copolymers of maleicanhydride-^{14}C and vinyl acetate as standards, 1283
Biconstituent fibers from polyurethane and nylon 6, 1387
Block polymers of cured diene-urea, isocyanate terminated intermediates, 1931
Block copolymers based on polycarbonate, dynamic mechanical study, 2431
Blown film extrusion, experimental determination of elongation viscosity, 3257
transfer process, 3277
bubble instability, 3291
Boron hydride on polymeric matrix, 917
Brominated polypentenamer and its substituted nitrile derivatives, preparation, 3381
Bulk polymerization, kinetics of two-phase monomer and initiator distribution, 757
Butadiene-ε-caprolactam block polymers from isocyanate terminated intermediates, properties, 3225
Butadiene terpolymer, audio-frequency mechanical spectra, 2015
Carbon black/elastomer powders, effect of pressure by comparison of press cured powders containing vulcanization agents with milled mixed compounds, 3157
Cellulose photo irradiated, formation of free radicals by the effect of ferric ions, 2789
Cellulose acetate secondary, dyed and undyed surface areas by *p*-nitrophenol adsorption, 3161
Cellulose acetate, ultrafiltration membranes, 1449
Cellulose acetate membrane, constrained optimization using two level factorial design, 251
determination of diffusion coefficient of water, 1135
state of water, 2743
Cellulose fiber, some observations on the concept of the degree of crystallinity, reference to moisture effect, 729
Cellulose material, rapid x-ray technique for crystallinity, 2353
Cellulosic membranes, permeability of water and water vapor through, 2515
Characterization osmotic and viscometric, poly(*p*-chlorostyrene) and poly(*p*-methoxystyrene), 2621
Coextrusion, a study in a circular die, 1875
Conductivity electrical, anomalous behavior and thermal noise in carbon black containing polymers at T_g and T_m, 831
Copolymer composition as a function of molecular weight, a rapid technique for measuring by gel permeation chromatography and infrared, 2131
Copolymers trisequences, preparation from isoprene and methylmethacrylate, 3173
Copolymers of vinylidenechloride-vinylchloride, heterogeneous nucleating agents for crystallization, 371
Corrosion of poly(tetrafluoroethylene) by active alkali metals, quantitative explanation of the mechanism, 3201
Cotton fibers, contribution of maturity to untreated and crosslinked fibers, 2067
contribution of intrinsic properties, 2079
Cotton fiber maturity, x-ray study of phase transformation, 115
Cotton/polyester flame retardant blend, effect of poly(vinylbromide) on the layer of cotton fibers, 1079
Creep behavior of standard linear solid, 2917
Crystallization flow induced, relative effects of extension and shearing flow fields, 125
Cupric ion removal from solution, contact with peanut skins, 1563
Deformation of viscoelastic solids in a class, coupling to temperature changes, 1611
Degradation mechanical in capillary tube flow,

dilute solutions of high polymers, 3235
Degradation of polyolefins, photosensitized, 15
Degradation of polyurethane, effect of various metal acetylacetonates on the photodegradation, 2947
Degradation thermal of polymers, ablation studies on a series of composite specimens containing asbestos fiber with various high temperature resin binders, 959
fiber reinforced phenolic resin composites, 973
Degradation thermal oxidative, of poly(4-methyl-1-pentene), identification of products and mechanism, 2391
of polyolefins, atactic polypropylene in solution, 3341
Dicyanamide in the moisture, infrared absorption, 2059
Differential scanning calorimetry, determination of volatilization for polymers, 1799
curing of highly reactive polyester resin under pressure, kinetics studies, 2279
Diffusion of deterrents with interaction, nitrocellulose matrix, 1905
Diffusivities of gases in polymers, a method for the dynamic measurement, 3193
Dilatometer recording, photopolymerization of ethyleneglycoldimethacrylate, isobutylether of benzoin as photoinitiator, 2243
Elastic fracture of polymer solution, role of entanglement, 3375
Elastomers highly filled, energy balances and uniaxial damage, 2821
Elastomers reinforced with starch xanthide, crosslinking by diisocyanate, 519
variability of ultimate properties, 787
Elastomers, physical and chemical stress relaxation, 2571
Emulsion polymerization, kinetics of vinylchloride and vinylacetate, 97
Encapsulation and collimation of glass fibers within a thermoplastic, composites obtained by means of polymerization, 1323
Energetics of nylon 66 phototendering, photo physical processes in poly(hexamethyleneadipamide)-acid dye complexes, 1847
EPDM rubber, powder prepared from solution, 1491
Epoxide resin, aromatic amine cured glycidylether-type, mechanism of thermal degradation, 1539
thermal degradation of amine cured model compounds, 1-(N-ethylanilino)-3-phenoxy-propan-2-ol, 391
molecular weight distribution by gel permeation chromatography, 585
subject to postglycidylation, 609
chain branching, 601
Epoxy based polyether resins, influence of extent of polymerization on the thermal behavior, 1127
Epoxy polymers, fracture of epoxy and elastomer modified in bulk and as adhesive, 2545
Epoxy stabilizers in poly(vinyl chloride) composition, mechanism of action, 3387
Evaporation of solvents, mixed polymer systems of limited miscibility, 2859
Exclusion chromatography using controlled porosity glass, comparison with styrene gels, 1601
application to hydraulic polymers, 2933
Extensional flow at thermoforming temperatures, poly(methyl methacrylate) and polystyrene, 1209
Fiber orientation of cellulosic samples, determination by x-ray diffraction, 2609
Flammability, vulcanized butadiene acrylonitrile
Flocculation of sewage, 37
Fluorocarbonbibenzoxazole polymers, transition and thermal stability, 2731
Frequency-temperature superposition for dynamic mechanical transformations, computer implementation, 791
Gas permeation polymer blends, PVC/ethylene-vinylacetate copolymer, 1337
Gas permeation constants, units, 2579
Gelation of collagen dilute solution, ultraviolet light, 3299
Gel like systems, thixotropic behavior, 199
Gel permeation chromatography, characterization and properties of macromolecules, 435
functionality distribution of hydroxyl terminated polybutadiene, method and calibration procedure, 2255
measurement for commercial polymers, 2269
infrared detection of polymers, 3107
method for correlating molecular weight, skewing and concentration corrections, 2655
use of small molecules, analysis of a living polymer mixture, 821
polysulfones, 905
Glass transitions, irradiated poly(methyl methacrylate) compositions incorporating triallylcyanurate, 2563
Glow discharge electrodeless, polymerization of hydrocarbons in a closed system, 531
polymerization of organic compounds, amines and nitriles, 1403
Glucose and cellobiose, photoinduced radicals, 1291
GPC high resolution and high speed, oligomers and plasticizers, 629
Graft copolymerization, gamma ray induced, acrylic amide and acrylic acid to nylon 6 fabric, 1
photo induced, methylmethacrylate onto fibrous polymer, affecting factors, 887
nylon 6 to methyl methacrylate with dimethylaniline/Cu^{+} ion system, 1815
Graft polymerization, methyl methacrylate onto wool using dimethyl aniline-benzylchloride mixture, 335
vinyl monomers on polyamide fibers with manganese (IV) initiation, 2699
Grafting, acrylic monomer onto fibrous substrate, photoinitiated and vapor phase in the presence of biacetyl, 2187
acrylic acid and acrylonitrile to polyester fibers by gamma radiation and

benzoylperoxide, 461
acrylonitrile onto wood pulp, influence of process variables, 1257
formaldehyde crosslinked and cyanoethylated cotton cellulose to acrylate monomers, 29
Grafting onto poly(vinyl alcohol), photoinitiated, 1119
onto wool, radiation induced, kinetic analysis, 2099
Grafting by xanthate method, effect of lignin content on graftability of wood pulp, 1573
effect of operation conditions for acrylonitrile to wood pulp, 545
Gum, influence on the crystalline structure in Ramie fiber, 999
Head space gas chromatography, analysis for vinylchloride in PVC, 3169
Hemodialysis membrane, use of solubility parameters for preparation, 1723
Homopolymer linear, a continuum of molecular weight distribution application, 273
Hydraulic permeation, liquids through swollen polymeric network, 1837
poly(vinyl alcohol)-water, 1381
Hydrocellulose, spectroscopic investigation of reducing end group derivatives, 2423
endwise degradation during hot alkali treatment, 3007
Hydrophillic gels, based on copolymers of 2-hydroxyethyl methacrylate with methacrylamide and acrylamide, 3061
Hydrophillic membranes, containing ionogenic group, specific resistance, 3029
Impact testing autographically, increased efficiency and accuracy, 2717
Interfacial preparation and properties, poly(tributyltin acrylate) and related polymers, 2911
Intrinsic viscosity, a one point new method, 3361
Isoprene with *n*-butyllithium, a mathematical model for polymerization in benzene, 165
Isotactic polystyrene, heterogeneous nucleating agents for crystallization, 2601
Latex interpenetrating polymer networks, noise and vibration damping, 1731
Lignin, thermoplastic behavior with various synthetic plasticizers, 2799
Liquid/liquid dialysis, time lag and permeation rate, 3087
Liquid/liquid ion exchange chromatography with amphiphilic polyelectrolytes, 2929
Macromolecular domains, crystallization, 1103
Mechanochemistry of polymers, temperature, effect, 1461
Melt spinning, resonance as a limiting cycle, 557
Membrane, cellulose acetate, constrained optimization using two-level factorial design, 251
Membrane NS-100, removal of alcohols, amines, and aliphatic acids in aqueous solution, 1347
Methods for assessing the degree of interaction between plasticizers and poly(vinyl chloride), 3119
Methyl methacrylate copolymers, increased radiation degradation, 1201
Methyl methacrylate monomer, transport in poly(methyl methacrylate), 2485
Molecular weight distribution of high-density polyethylene, shear dependance of the steady shear melt viscosity, 2167
empirical model, 3157
Molecular weights by viscosimetric, some computer programs for experimental data elaboration, 2583
Molten polymers flowing through geometrically complex channels, measurement of stress birefringence patterns, 2403
Morphology of assymetric separation membrane, 1475
Morphology of cast nylon 6, change through copolymerization, 1521
New method of determining contact angle between monofilament and liquid, 2897
New micromethod, determination of plasticizer solvent power for poly(vinyl chloride), 1487
Networks maximum extensibility relationship, degree of crosslinking and primary molecular weight, 2709
Nitrocellulose, hydrogen bonding of benzoic acid esters to unesterified hydroxyl groups, 2913
Nylon 6, behavior of unstretched fibers subjected to longitudinal and transverse impact, 939
Nylon 6 (polyacrylamide), study of crystallization, effect of "crystalline memory" on crystallization kinetics, 637
Nylon 66 yarn, false-twist texturing process, structural causes of dyeing variations, 1147
Peracid type resins, characterization as oxygen transfer agent, 1649
Perfluorocarbon binder unsaturated and perfluoroammonium salt combination study, 1359
Permeability measurement, formation and relaxation of crazes, 1999
Phase separation conditions, polystyrene-styrene (butadiene-styrene) copolymer solutions, 1775
Phenol-formaldehyde wood adhesive, characterization by PMR spectroscopy, 215
Phenolic polymer, electrical resistivity, 1205
Photodegradation of polystyrene, effect on its permeability characteristics, 1409
Piezoelectricity in polymer film, induced by electrical field, 1373
Platinum(II)-poly(4-vinylpyridine) complex, 915
Polyacrylamide anionic, effects of branching and other physical properties on flocculation of domestic sewage, 37
Polyamic acid resin, near infrared spectra, 897
Polyamide aromatic, physicochemical characterization, 69
Polyamide films, preparation and properties of amorphous and poorly ordered films, 2309
Poly(butylene terephthalate), effect of skin

core morphology, 1701
Poly(dichlorophosphazene), thermomechanical behavior, 2641
Poly(dimethyl vinyl siloxanes), effect of microgels on viscoelastic properties, 1269
Poly[N,N-(4,4′-diphenylether) 4-aminophthalimide]film, properties, 665
thermal properties, 673
Polyelectrolyte synthesis and electrophysical properties, polypropargylpyridinium and polypropargylbipyridinium and their simple and complex tetracyanoquinodimethane ion-radical salts, 1275
Polyester-poly(methyl methacrylate)triblock copolymers, preparation and physical properties, 769
Polyester systems single phase unsaturated, mechanism of low profile behavior, 3045
Polyether resin based on epoxy, influence of extent of polymerization on thermal behavior, 1127
Polyethylene blends polymerized by radiation, physical state, 1959
Polyethylene crosslinking by induced γ-radiation, effects of double bonds, 361
Polyethylene photodegradable, 923
Polyethylene high density, formation of 2,4-dinitrophenylhydrazones after irradiation of film with UV light, 951
Polyethylene film, mechanism of corona induced self adhesion, 265
high density film, melt elasticity and anomalous observations on effects of molecular structure, 1061
Polyethylene linear fractions, obtained by GPC and characterized, 1363
PE-PVC blends, effect of fillers, crosslinking agents, and domain physical properties, 879
Poly(ethylene oxide), sorption solutes in infinite dilution studies, 2439
benzene at finite concentration, 2457
Poly(ethylene terephthalate), crystallization, effect of nucleating agent, 2683
glass transition by gas chromatography, 3051
flame retardant, 227
fundamental studies on solvent dying with tetrachloroethane, and diffusion of dispersion dyes, 1095
Poly(ethylene terephthalate) film, mechanism of corona and ultraviolet light induced self adhesion, 3315
Polyimides, diisocyanates, dianhydrides and tetracarboxylic acids, 2961
Polyimide laminates, application of infrared spectroscopy to the cure, 1767
Polyimide, thermoanalytical investigation of transformation of polyamido acid, 2335
Polymer blends, poly(methyl methacrylate) and polystyrene structural color, 1029
Polymer blends of, two phase in extrusion, effect of mixing on modes of dispersion, 2831
tricomponent, simplex lattice planning, 2087
Polymer carbons, porous, surface structure of precursor polymers, 2629
Polymer composites, *in situ* matrix formation, 141
Polymer films, permeability to sulfurdioxide at low concentration, 1829
relationship between toughness and dynamic mechanical properties, 1421
tranport surface fluorination, 1439
Polymer melts, extensional and failure properties, 419
method for measurement of true die swell, 481
new rheological constitutive equation for network model, 931
time effects in flow using a biconical viscometer, 567
flow through well lubricated conical die, 2811
Polymers molten, bicomponent flow in annular dies of extruders, 375
Polymer network, polyurethane, polyacrylate interpenetrating, 1893
Polymer solids under large strains, induced anisotropy of thermal conductivity, 49
Polymers, surface impregnation of concrete bridge decks, 281
Polymers concentrated solutions, solvent effect on the time constant, 1663
Polymeric matrix with boron hydride, 917
Polymeric networks, hydraulic permeation of liquids, a generalized correlation, 2759
Polymeric ultraviolet absorber, 713
Polymerization of 4-chloroformylphthalicanhydride with 4,4′-diaminodiphenylether, 651
Polymerization of methyl methacrylate, reaction catalyzed by sodalime glass, 1585
PMMA round notched bars, craze growth and void coalescence, 3093
Polymerization of organic compounds by glow discharge electrodeless, acetylene with unusual comonomers, 2845
Polyolefins, diffusion of 2,4-dihydroxybenzophenone stabilizers, 319
photo sensitized degradation, 15
Polypropylene, determination of antioxidants by liquid chromatography, 1243
Polypropylene film, biaxial stretching type II orientation during [2-2FI]-type stretching and its change by subsequent thermal contraction, 303
Polypropylene film surface change, chromic acid mixture treatment, 1593
Polypropylene fibers, meltspun in the presence of torsional shear, 1755
Polypropylene isotactic and bulk, effects of melt history, crystallization pressure, and temperature on the crystallization and resultant structure, 1037
Porous polymer carbons, macroporous carbons, from crosslinked α-chloro-acrylonitrile polymers, 3327
Polysulfones of two aromatic groups, effects of gamma radiation, 405
Polysulfones, gel permeation chromatography, 905
Polyurethane, rigid foam, fracture properties, 5
Polyurethane resin, as a wool fiber coating by water curing, 1017

Polyvinylchloride/acrylonitrile/butadiene copolymer (NBR), gas permeation blends, 2143
Poly(vinyl chloride) bulk, modeling of reactors, 1297
Poly(vinyl chloride), comments on preparation of broad-distribution samples by recombining fractions, 1193
foils, accelerated electron irradiation and radiation yield of hydrochloride, 1955
Poly(vinyl chloride) based latex, interpenetrating polymer networks, synthesis and behavior, 2225
Poly(vinyl chloride), synthesis and behavior, 2225
molecular aggregation, role of molecular structure, 2179
polymerized at low temperature, solutions, 2625
stabilization, change in color of PVC compound with metal soaps, 235
complementary coloration, 243
PVC/ethylene-vinylacetate copolymer (EVA) gas permeation polymer blends, 1337
PVC, nuclear magnetic resonance and stereoregularity, 1227
Poly(vinylidene chloride), fused and unfused carbons, 2633
precursor copolymers, preparation and properties of porous polymer carbons, 683, 697
Powder coating, electrostatic charge and decay, 147
Protein ultrafiltration, an experimental study, 1639
Ramie fiber, factors influencing the tensile properties, 503
influence of gum on the crystalline structure, 999
Resin peracid type, characteristic as oxygen transfer agent, 1649
Reverse osmosis, criterion of ion separation, 2889
Reverse osmosis and other membrane permeation operations, theory, 83
Reverse osmosis membrane, composite by plasma polymerization of acetylene|Co|H_2O, 2981
Reverse osmosis membranes by plasma polymerization, copolymerization of unusual comonomers, 2157
Reverse osmosis membranes, prepared by plasma polymerization of allylamine, performance and chemical characteristics of composite, 1911
preparation by surface modification of polymeric films, surface acetylation of cellulose, 1685
Reverse osmosis separation, inorganic solutes in aqueous solutions using porous cellulose acetate membrane, 179
some organic and inorganic solutes in aqueous solutions using aromatic polyamide membranes, 801
using porous cellulose acetate membrane, aldehydes, ketones, and ethers in aqueous solutions, 2473
Rheological constitutive equation, network model of polymer melts, 931
Rheological phenomena, polymerization of styrene in a stirred tank, 719
Rheological properties, molten mixture of polyoxymethylene and copolyamide, fibrillation and microstructure, 1781
Rheogoniometry of molten blends, polystyrene and styrene ionomers, 1427
Rheovibron viscoelastometer, a new method for the measurement of dynamic shear mechanical properties of materials, 3221
Rubber bush long mountings, effect of precompression on the load-deflection relations, 747
Rubber reinforced plastics, morphological changes on processing of polyblends, 1625
Rubber strain energy functions, characterization of gum vulcanizates, 2033
vulcanizates, 2319
Saranex film, permeability to flame retardant vapors, 3369
Shellac/melamine resin blends, x-ray diffraction, 3385
Scission of polymers with high speed stirring, effect of solvent and concentration, 2119
Scission of long chain polymers by high speed stirring in solution, effect of short chain polymers, 2749
Silane coupling agents, adhesion of polypropylene and polystyrene to glass, 1939
Silicone rubber (RTV) treated in a hydrogen glow discharge, contact angle, 45
Silk, physical properties and structure by glass transition and crystallization of fibroin, 1013
Siloxane cured polymers, reversible amine solubilization, 2817
Siloxane zwitterions synthesis and surface properties of crosslinked polymers, 1221
Solid state polymerization, hexamethylcyclotrisiloxane, 353
Solubility parameters, determination of solvents and polymers by means of correlations with other physical quantities, 1163
Stabilizers in polymers, diffusion of 2-hydroxy-4-octoxy benzophenone in polyolefins, 1745
Starch insoluble xanthate, use in heavy metal removal, 847
effect of temperature on the course, 1617
Sulfur vulcanization, thiuram accelerated effect of high-abrasion furnace carbon black, 645
Surface impregnation, concrete bridge decks with polymer, 281
Styrene-divinylbenzene copolymers, conservation of porosity in copolymer matrices and derived ion exchange resins, 2647
Styrene soap free polymerization, in the presence of alcohols, 3077
Terpolymerization of acrylonitrile, styrene and esters of α-cyanocinnamic acid, 2359
polymerization methods and properties, 2379
Thermal analysis of poly(1,3,4-oxadiazole-2,5 diyl-1,2-ethenediyl) and poly(1,4-

phenylene-1,3,4-oxadiazole-2,5,diyl-1,2 ethendiyl, 2869
Thermal degradation of polymers, ablation studies on a series of composite specimens containing asbestos fiber with various high temperature resin binder, 959
phenolic resin composites, 973
comparison of laboratory test methods with tethered rocket motor firings, 983
Thermal degradation of poly(vinyl chloride), structural changes during degradation in nitrogen, 2991
Thermal stability of poly(vinyl chloride), influence of particle size, 2923
Thermomechanical analysis, shrinkage behavior of oriented PVC, 1317
Thermosetting fluorochemical methacrylate polymer with thermosetting hydrocarbonacrylate polymers, critical surface tension of blends, 2235
Thickness variation, thermoforming of poly(methyl methacrylate) and high-impact polystyrene sheet, 1805
viscoelastic properties, 2005
Thiuram vulcanization, polymerization of styrene in the presence of tetramethylthiuramdisulfide and natural rubber, 1005
Tire cord adhesion, effect of ozone and UV, 855
Torsional braid analysis, apparatus of a digital data analyzer, 1087
Triblock copolymer, polyester-poly(methyl methacrylate), preparation and physical properties, 769
Urethane thermoplastic elastomer, effect of soft-segment variation, 2493
effects of variation in isocyanate structure, 3185
Ultrasonic properties, phenolic and poly(phenylquinoxaline) polymers, 3241
Ultraviolet absorber polymeric, 713
UV light, effect on the subsequent thermal volatilization of poly(methyl methacrylate) 2781
Ultraviolet irradiation, molecular weight changes in polyacrylates, 2773
Vibron viscoelastomer, an apparatus for the measurement of dynamic mechanical properties of polymers in a gas, 1695
Vinyl acetate and vinyl chloride, kinetics of emulsion polymerization, 97
Vinyl graft polymerization onto nylon 66, induced by azobisisobutyronitrile, 1677
Viscose rayon, rheological model, 3129
Viscoelastic analysis, matrix method of peel adhesion of adhesive tape, 2107
Viscoelasticity linear, limits in poly(methyl methacrylate) and poly(ethyl acrylate), 1971
Viscoelastic properties, plasticized amylose triacetate film, 3015
Viscosities, calculations of concentrated solutions from single point measurement, 619
Vulcanization, thiuram accelerated polymerization of styrene in the presence of tetramethylthiuramdisulfide and natural rubber, 1005
effect of high-abrasion furnace carbon black, 645
Vulcanization, reaction of *cis*1,4-polyisoprene, bis(diisopropyl) thiophosphoryldisulfide as a sulfur donor, 865
Water absorbancy, poly(2-dimethylamino ethyl methacrylate)-grafted cellulose fibers, 1771
Xanthate method of grafting, effect of lignin on the graftability of wood pulp, 1573